



# Class II Division 2 Groups E, F & G



## COMBUSTIBLE DUSTS

1. Combustible dust will not normally be in suspension in the air in quantities sufficient to produce explosive or ignitable mixtures, and dust accumulations will normally be insufficient to interfere with the normal operation of electric equipment or other apparatus, but combustible dust may be in suspension in the air as a result of infrequent malfunctioning of handling or processing equipment.
2. Resulting combustible dust accumulations on, in or in the vicinity of the electric equipment may be sufficient to interfere with the safe dissipation of heat from electric equipment or may be ignitable by abnormal operation or failure of electric equipment.

COMBUSTIBLE DUST VOLATILITY CHART

Dust Type by Volatility of Cloud Layer	Typical Self Ignition Temperature	
	Cloud	Layer
Lignite	380°C/716°F	225°C/437°F
Lead	460°C/860°F	240°C/464°F
Cellulose	490°C/914°F	430°C/806°F
Flour	490°C/914°F	430°C/806°F
Cocoa	500°C/932°F	200°C/392°F
Polyacrylonitrile	540°C/1,004°F	400°C/752°F
Soya Meal	540°C/1,004°F	340°C/644°F
Zinc	570°C/1,058°F	440°C/824°F

### CLASS II Groups

Group E	Group F	Group G
<ul style="list-style-type: none"> <li>• Aluminum</li> <li>• Magnesium</li> <li>• Commercial Alloys</li> </ul>	<ul style="list-style-type: none"> <li>• Coal</li> <li>• Carbon Black</li> <li>• Charcoal</li> <li>• Coke Dusts</li> </ul>	<ul style="list-style-type: none"> <li>• Flour</li> <li>• Grain</li> <li>• Wood</li> <li>• Plastic</li> <li>• Chemicals</li> </ul>
<ul style="list-style-type: none"> <li>• Combustible Metal Dusts</li> </ul>	<ul style="list-style-type: none"> <li>• Combustible Carbonaceous Dusts</li> </ul>	<ul style="list-style-type: none"> <li>• Other Combustible</li> </ul>

TEMPERATURE (T)-RATING CHART

T-Code Identification #		Maximum Surface Temperature	
IEC NEC® 505	NEC 500 Table 500.8(C)	Celsius	Fahrenheit
T1	T1	450°C	842°F
T2	T2	300°C	572°F
	T2A	280°C	536°F
	T2B	260°C	500°F
	T2C	230°C	446°F
	T2D	215°C	419°F
T3	T3	200°C	392°F
	T3A	180°C	356°F
	T3B	165°C	329°F
	T3C	160°C	320°F
T4	T4	135°C	275°F
	T4A	120°C	248°F
T5	T5	100°C	212°F
T6	T6	85°C	185°F

**hazardousLOCATION** Product Line-Up in this Class / Division

